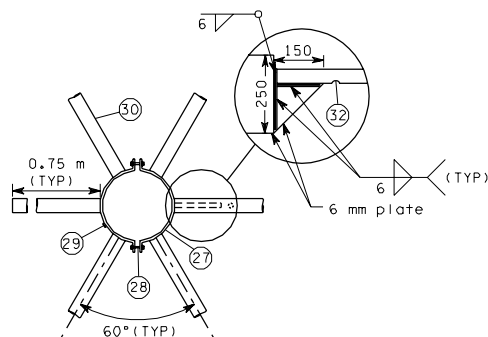


### HIGH MAST TIMBER LUMINAIRE SUPPORT DETAIL

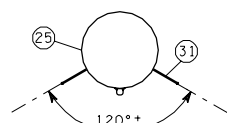
Shown for 480 VAC power feed.  
Increase conductor and fuse size  
as required for 240 VAC power feed.



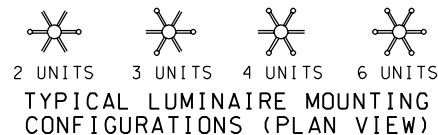
### VIEW A-A LUMINAIRE SUPPORT BRACKET GALVANIZE AFTER FABRICATION

#### KEY

- ① Galvanized steel mast arm - configuration varies with manufacturer
- ② Luminaire - see Contract for type and number
- ③ Mounting height - roadway to luminaire elevation difference  $\pm 2\%$ , see Contract
- ④ Mast arm length - see Contract
- ⑤ M16 galvanized thimble eyebolt (single or double) with washers and nuts or eyenut
- ⑥ Bonding jumper - see Standard Specifications
- ⑦ Pole and bracket cable - see Standard Specifications
- ⑧ Equipment grounding conductor see Standard Plan "Typical Grounding Details"
- ⑨ Staple equipment grounding conductor to pole above 3 m from ground line. Below 3 m from ground line, enclose equipment grounding conductor in galvanized steel conduit, code sized, and connect to supplemental ground per Standard Plan "Typical Grounding Details"
- ⑩ Service wedge clamp
- ⑪ ACSR triplex or fourplex conductors - see Contract
- ⑫ Copper split bolt connector
- ⑬ Messenger cable.
- ⑭ Insulating tape for waterproof connection
- ⑮ Fused quick disconnects - see Standard Specification 9-29.7, use 30 amp fuses for high mast supports
- ⑯ Weatherhead - size as required
- ⑰ Code sized galvanized steel conduit
- ⑱ 200 mm x 200 mm x 100 mm NEMA 3R junction box with raintight hubs and removable cover
- ⑲ Grounding lug
- ⑳ Pole terminal block
- ㉑ Direct burial conductors or galvanized steel conduits with conductors, see Contract
- ㉒ Grounding bushing
- ㉓ Supplemental ground - see Standard Plan "Typical Grounding Details"
- ㉔ Class V timber pole - length sufficient for mounting height and burial depth
- ㉕ Class III timber pole - length sufficient for mounting height and burial depth.
- ㉖ Burial depth - 10% of pole height plus 0.6 m
- ㉗ 6 mm x 250 mm Plate collar bent to fit pole diameter (200 mm-250 mm)
- ㉘ M10 x 100 mm Machine bolts (four required) with washers and nuts
- ㉙ M12 Log bolts (six required), drill 14 mm hole in plate
- ㉚ 50 mm Pipe
- ㉛ M16 x 225 Step bolt
- ㉜ 20 mm Wire hole 50 mm from gusset plate, smooth hole edges
- ㉝ 25 mm nonmetallic conduit with 20 mm straps at code spacing
- ㉞ 11 m MIN, 16 m MAX varies depending on line clearance requirements

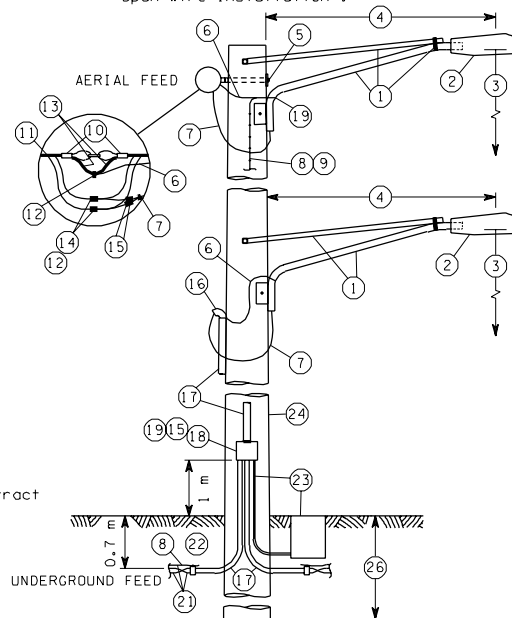


### VIEW B-B



### TYPICAL LUMINAIRE MOUNTING CONFIGURATIONS (PLAN VIEW)

NOTE: Timber luminaire supports are allowed for temporary installation only in locations where slip base treatment is not required  
When down guys are required, See Standard Plan "Span Wire Installation".



### TIMBER LUMINAIRE SUPPORT DETAIL

ALL DIMENSIONS ARE IN MILLIMETERS  
UNLESS OTHERWISE NOTED.

### TIMBER LIGHT STANDARDS

STATE DESIGN ENGINEER  
APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_  
WASHINGTON STATE DEPARTMENT OF TRANSPORTATION  
OLYMPIA, WASHINGTON